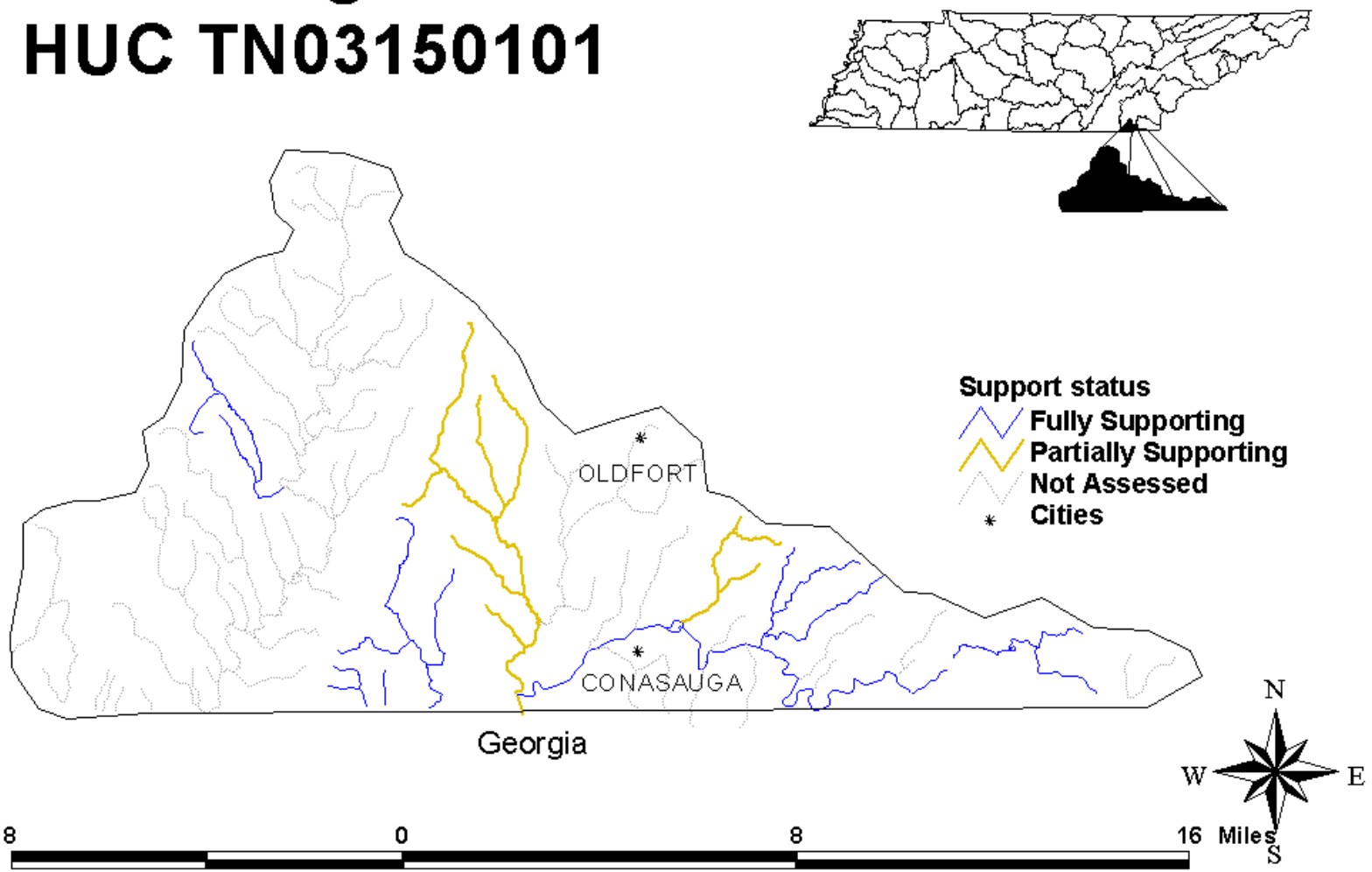
Conasauga River Watershed
HUC TN03150101



Conasauga Watershed Atlas

HUC Code: **TN03150101**

Counties: Bradley
Polk

Ecoregions: 66g
67f
67g
67i

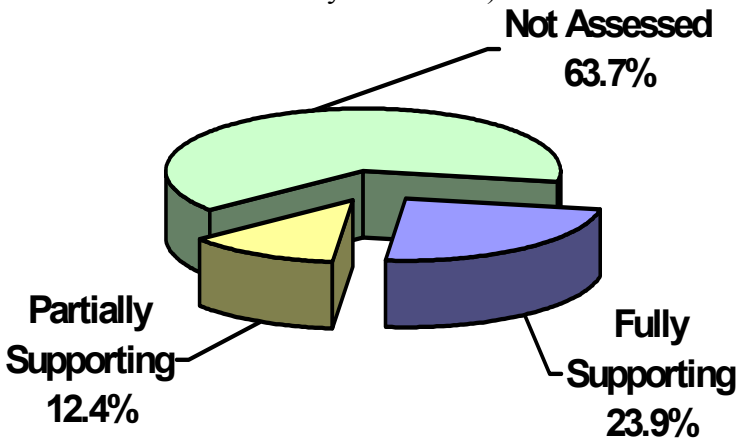
Drainage Size of Watershed:	124 square miles
Stream Miles in Watershed:	201.7
Stream Miles Fully Supporting:	48.3
Stream Miles Partially Supporting:	25.1
Stream Miles Not Supporting:	0.0
Stream Miles Not Assessed:	128.3
Lake Acres in the Watershed:	None
TDEC monitoring stations:	10
Advisories:	None
Watershed Monitoring Group:	1

Surface Water Quality in Conasauga River Watershed

The Conasauga River Watershed is unique in Tennessee because it does not flow into the Mississippi River but enters the Gulf of Mexico via the Mobile River. Only 17 percent of this watershed is in Tennessee, the remainder is in Georgia.

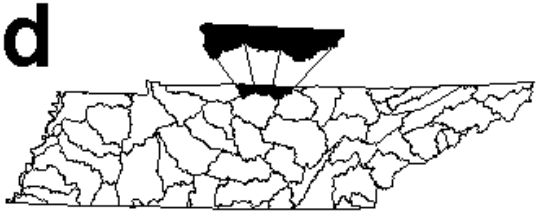
Approximately one third of assessed streams do not meet designated uses due to elevated nutrients and pathogens. Pasture grazing and septic tanks are the main source of the pollution in this rural district.

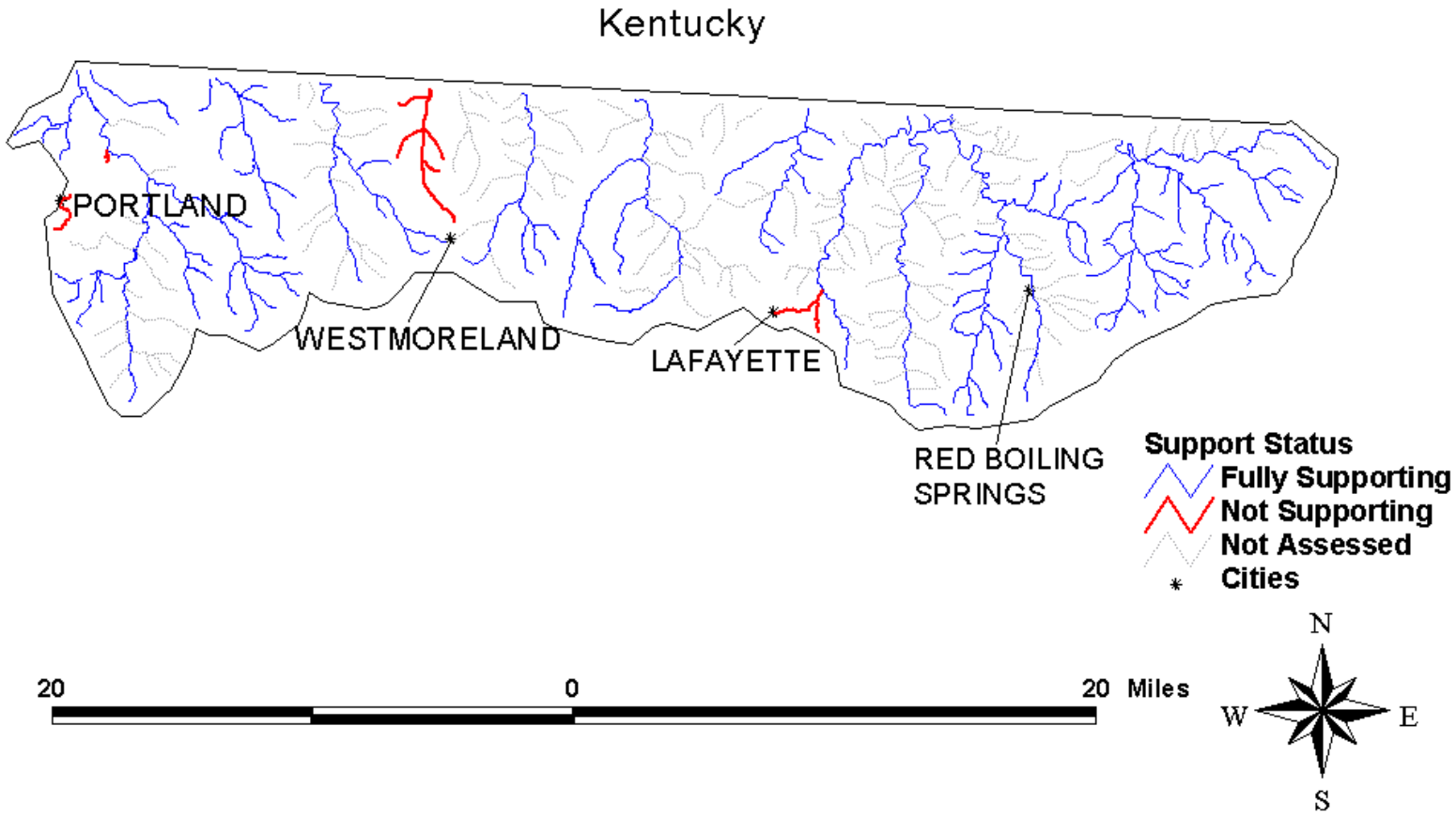
The General Assembly has designated a portion of the Conasauga River in the Cherokee National Forest as a State Scenic River. This watershed also has one high quality stream that is a subecoregion reference site, Sheeds Creek in 66g (Southern Metasedimentary Mountains).



2002 Assessment of Rivers and Streams in Conasauga River Watershed

Barren River Watershed
HUC TN05110002





Barren River Watershed Atlas

HUC Code: **TN05110002**

Counties: Clay
Macon
Sumner

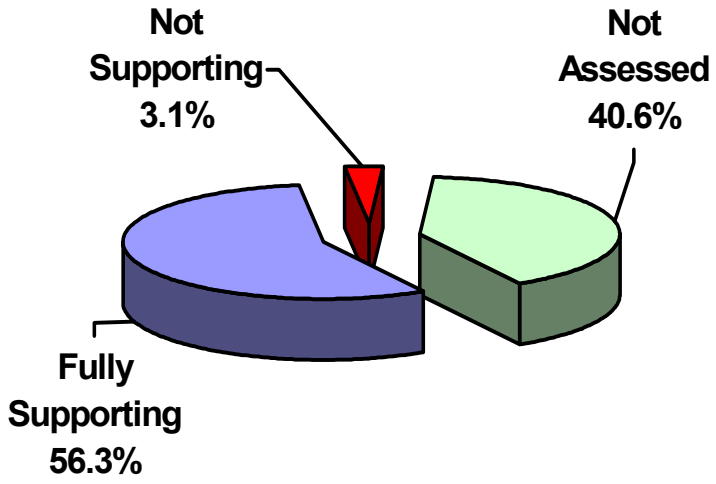
Ecoregions: 71e
71g
71h

Drainage Size of Watershed:	413 square miles
Stream Miles in Watershed:	563.2
Stream Miles Fully Supporting:	316.9
Stream Miles Partially Supporting:	0.0
Stream Miles Not Supporting:	17.7
Stream Miles Not Assessed:	228.6
Lake Acres in Watershed:	45
Lake Acres Partially Supporting:	45
TDEC monitoring stations:	60
Advisories:	None
Watershed Monitoring Group:	4

Surface Water Quality in Barren River Watershed

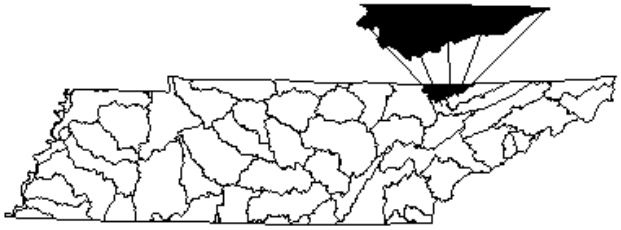
Only 18 percent of the Barren River Watershed is in Tennessee, with the remainder in Kentucky. From Tennessee the Barren River flows north into Kentucky's Green River.

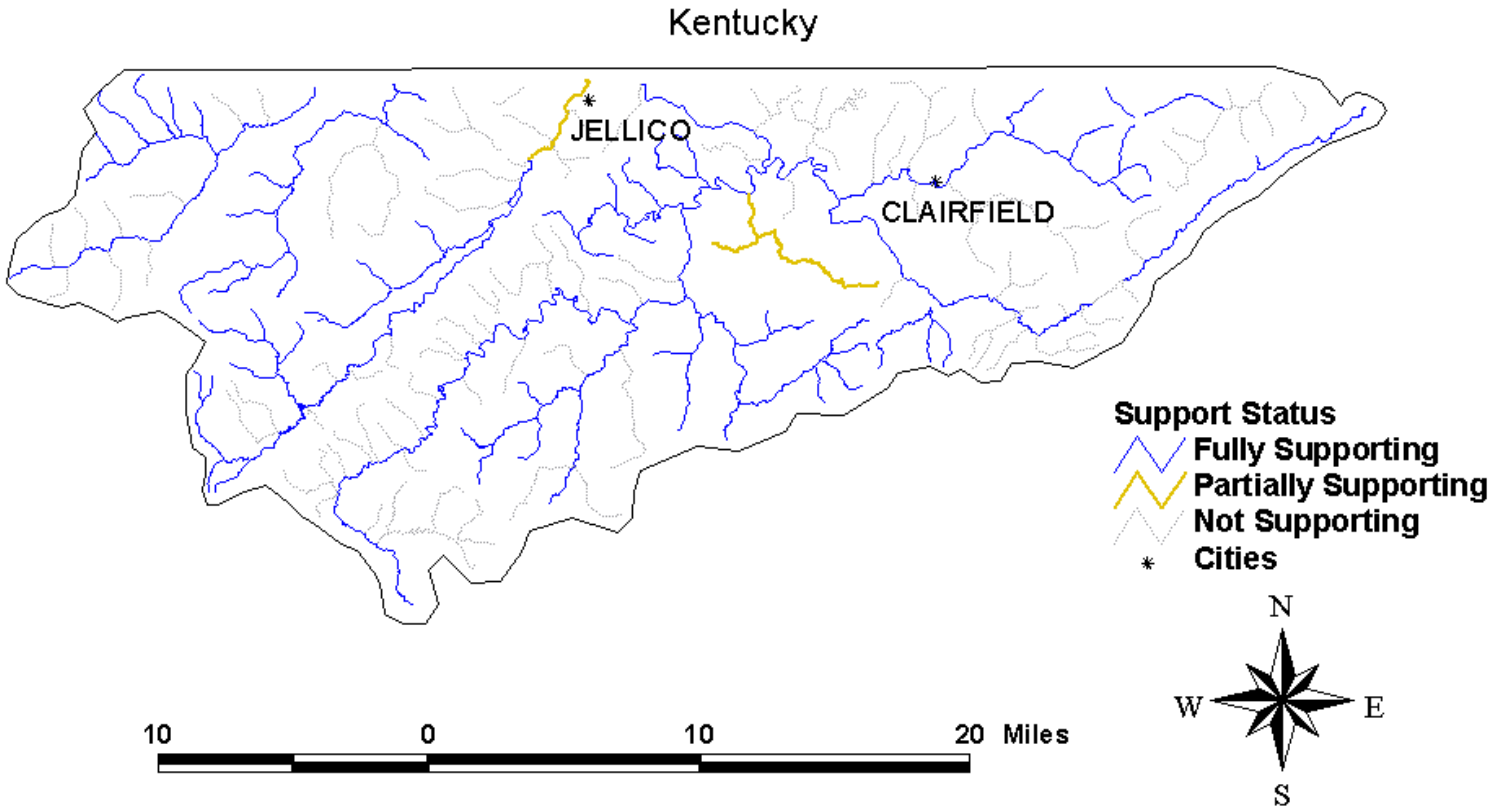
Livestock farms, forests and small towns define land use. Only a small percentage of streams are impaired. Two small municipal lakes (Portland and Westmoreland) are impaired by urban runoff and agriculture. The percentage of assessed stream miles increased by almost 30 percent since the 2000 report with only two additional streams failing to meet designated uses. Two streams, including Middle Fork Drakes Creek (Chapter X) showed improvement.



2002 Assessment of Rivers and Streams in Barren River Watershed

Clear Fork Watershed
HUC TN05130101





Clear Fork Watershed Atlas

HUC Code: **TN05130101**

Counties: Campbell
Claiborne
Scott

Ecoregions: 69d

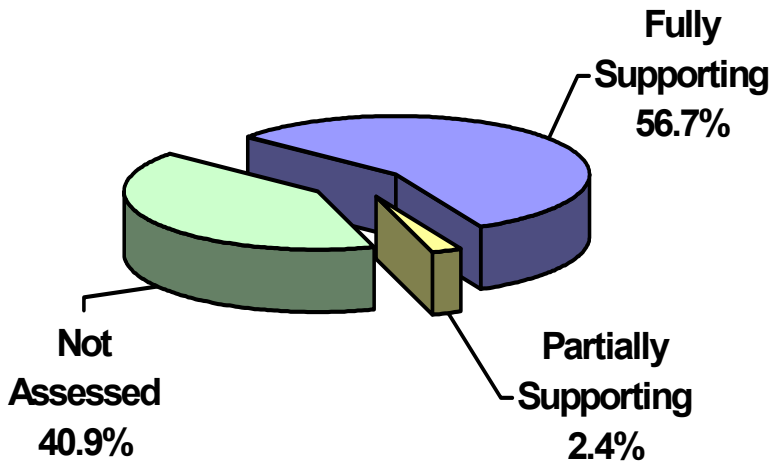
Drainage Size of Watershed:	331 square miles
Stream Miles in Watershed:	442.6
Stream Miles Fully Supporting:	250.9
Stream Miles Partially Supporting:	10.6
Stream Miles Not Supporting:	0.0
Stream Miles Not Assessed:	181.1
Lake Acres in Watershed:	None
TDEC Monitoring Stations:	28
Non-TDEC Monitoring Stations:	3
Advisories:	None
Watershed Monitoring Group:	4

Surface Water Quality in Clear Fork Watershed

Only 14 percent of the Clear Fork Watershed is in Tennessee, with the majority of the watershed in Kentucky.

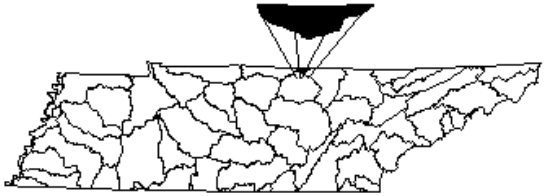
Land use includes farms, timber harvesting, coalmines, some oil and natural gas wells. Fishing is a popular recreational activity. The percent of monitored stream miles has more than doubled since the 2000 report to 59%. Very few miles (2.4%) failed to fully support uses.

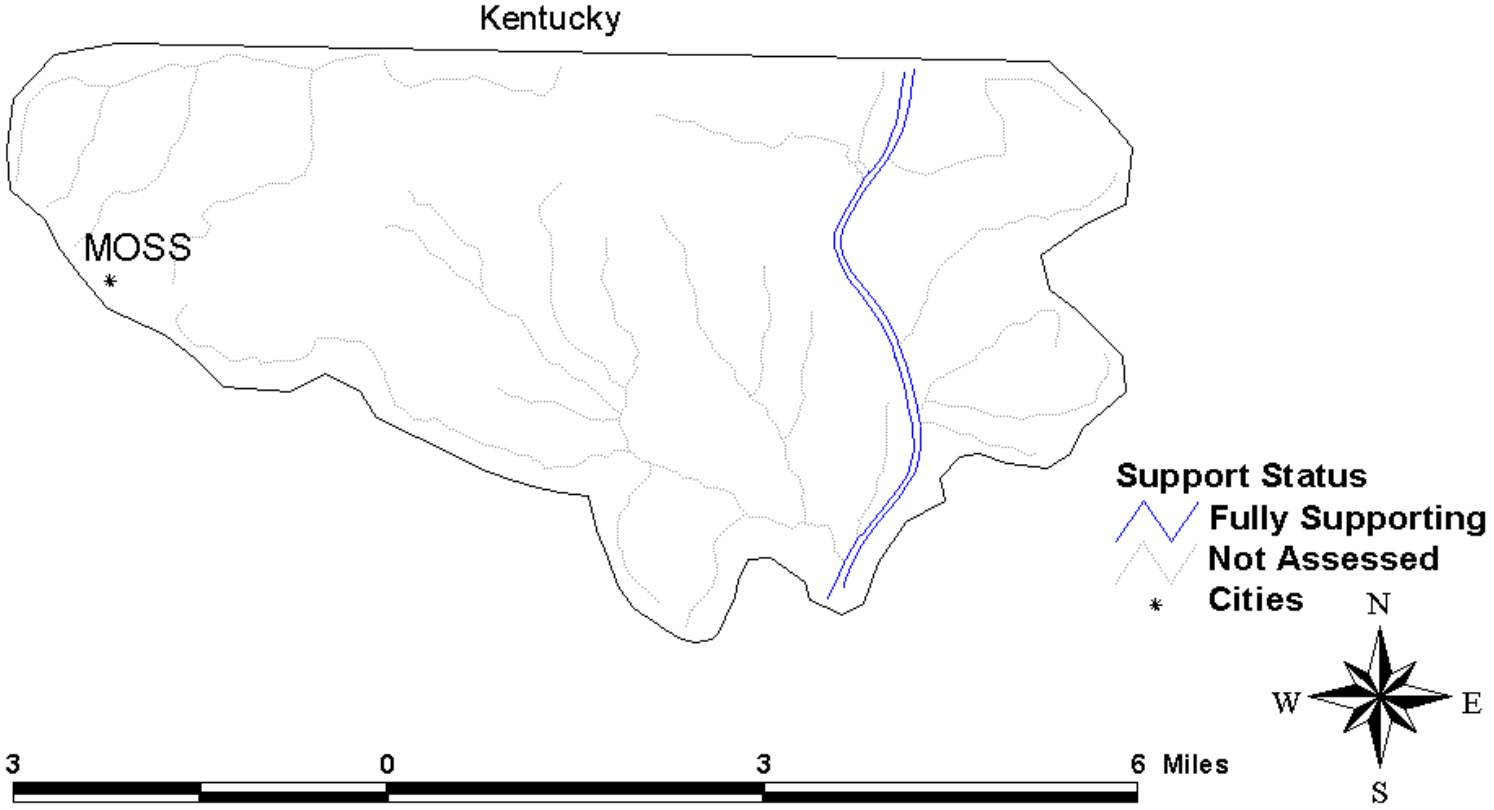
This watershed lies totally within a single ecoregion and has two high quality streams that are subecoregion reference sites, No Business Branch and Stinking Creek in 69d (Cumberland Mountains).



2002 Assessment of Rivers and Streams in Clear Fork Watershed

Upper Cumberland River Watershed
HUC TN05130103





Upper Cumberland River Watershed Atlas

HUC Code: **TN05130103**

Counties: Clay

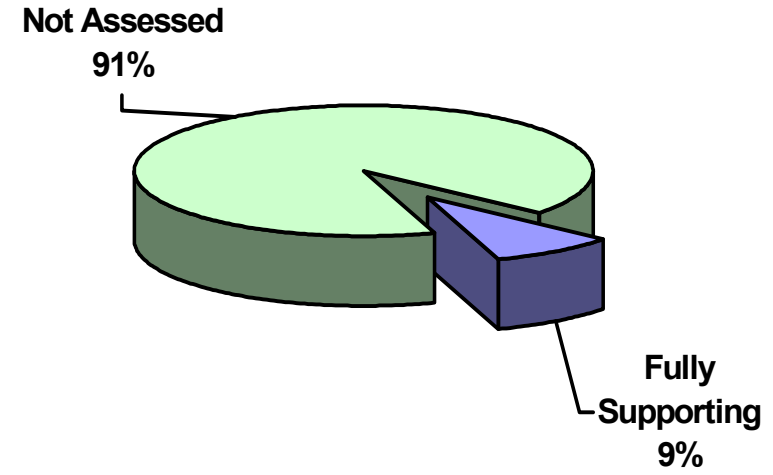
Ecoregions: 71g
71h

Drainage Size of Watershed:	34 square miles
Stream Miles in Watershed:	52.2
Stream Miles Fully Supporting:	4.7
Stream Miles Partially Supporting:	0.0
Stream Miles Not Supporting:	0.0
Stream Miles Not Assessed:	47.5
Lake Acres in Watershed:	None
TDEC Monitoring Stations:	1
Advisories:	None
Watershed Monitoring Group:	4

Surface Water Quality in Upper Cumberland River Watershed

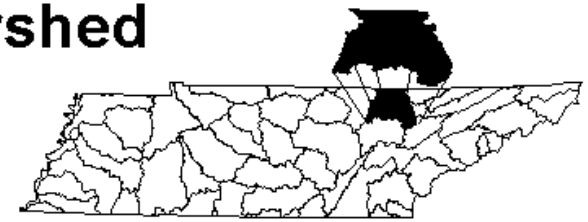
Less than two percent of the Upper Cumberland River Watershed is in Tennessee with the remainder in Kentucky. Boating and fishing are popular on this portion of the Cumberland River.

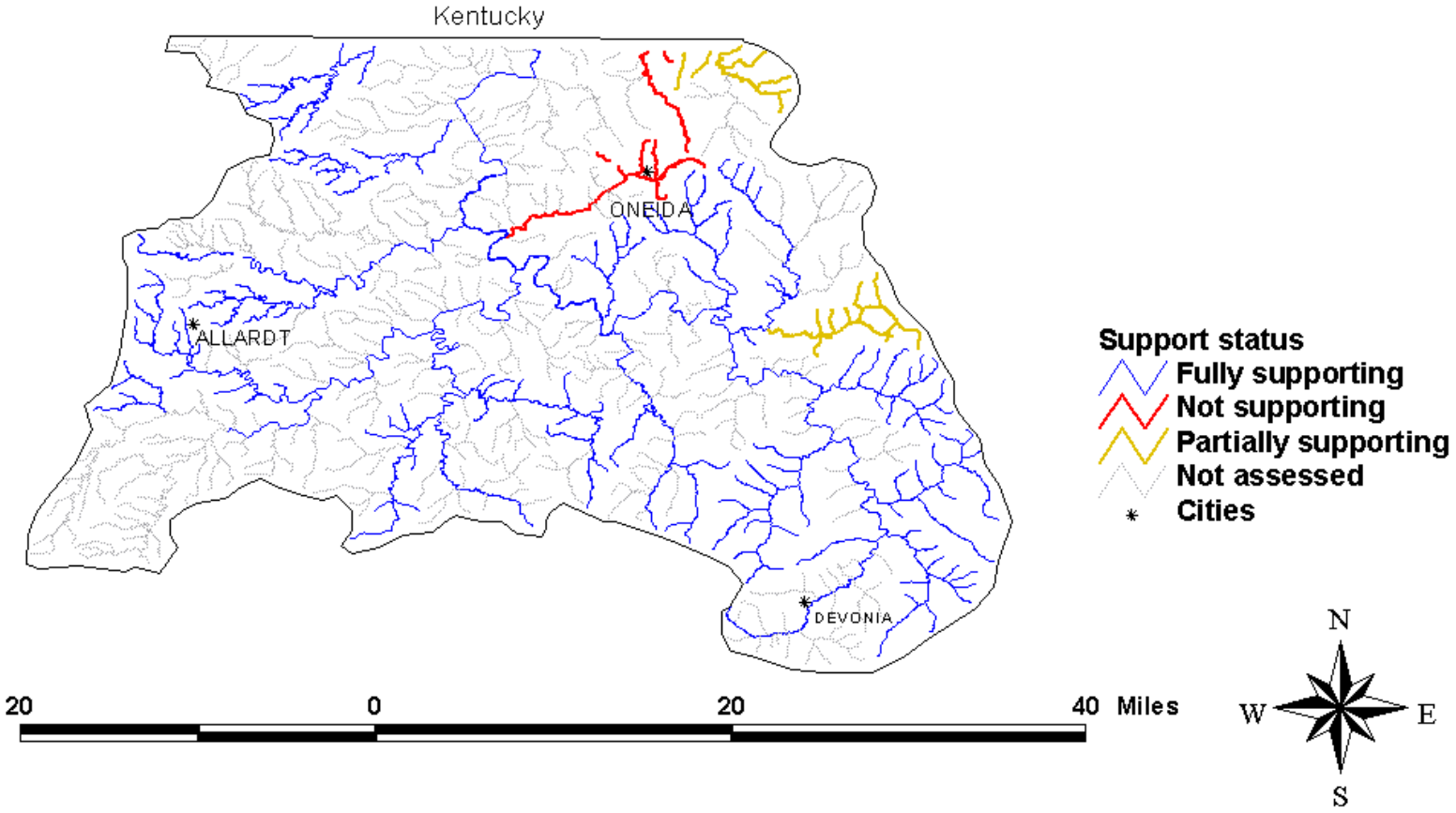
Additional monitoring was not conducted in this watershed during the Group 4 cycle in 2001 due to the small size of watershed, lack of pollution sources, and limited personnel. Resources were targeted on larger watersheds with more pollution problems. Due to this lack of data, the Division has not assessed the small tributaries in this watershed. The Upper Cumberland River is fully supporting designated uses.



2002 Assessment of Rivers and Streams in Upper Cumberland Watershed

South Fork Cumberland Watershed
HUC TN05130104





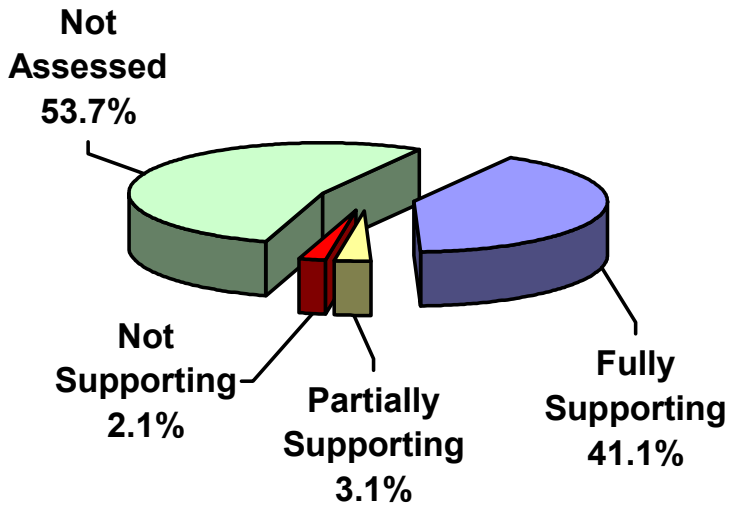
South Fork Cumberland River Watershed Atlas

HUC Code:	**TN05130104**	
Counties:	Anderson	Campbell
	Fentress	Morgan
	Pickett	Scott
Ecoregions:	68a	
	68c	
	69d	
Drainage Size of Watershed:	983 square miles	
Stream Miles in Watershed:	1,378.0	
Stream Miles Fully Supporting:	566.9	
Stream Miles Partially Supporting:	43.3	
Stream Miles Not Supporting:	29.5	
Stream Miles Not Assessed:	738.3	
Lake Acres in Watershed:	5	
Lake Acres Partially Supporting:	5 (100%)	
TDEC Monitoring Stations:	45	
Non-TDEC Monitoring Stations:	2	
Advisories:	5	
Watershed Monitoring Group:	4	

Surface Water Quality in South Fork Cumberland River Watershed

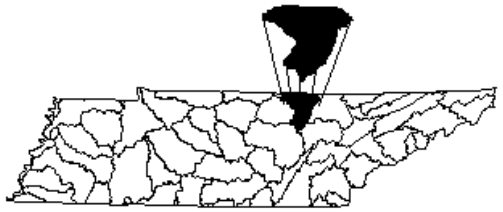
Seventy-two percent of this watershed is in Tennessee with the remainder in Kentucky. Logging, abandoned coalmines, small farms, some oil wells and a national park characterize this watershed.

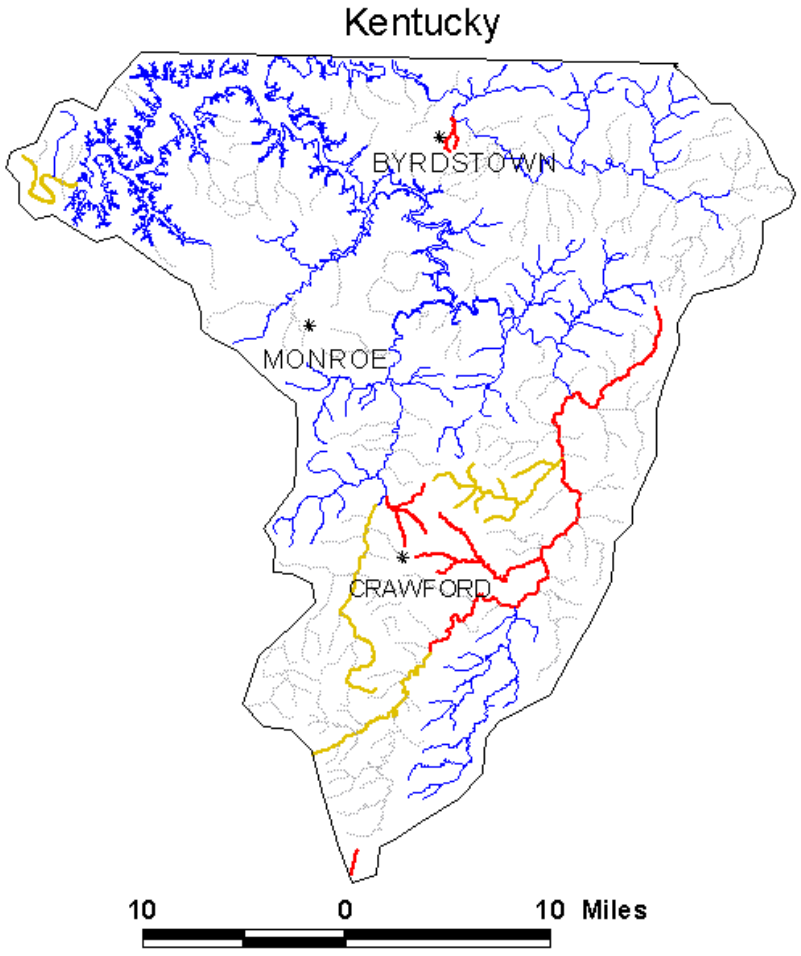
This watershed has an Outstanding National Resource Water (ONRW), Big South Fork Cumberland River. Four high quality streams are subecoregion reference sites, Rock and Laurel Fork Station Camp Creeks in 68a (Cumberland Plateau) and New River and Round Rock Creek in 69d (Cumberland Mountains).



2002 Assessment of Rivers and Streams in South Fork Cumberland River Watershed

Obey River Watershed
HUC TN05130105





Support status
- Fully supporting
- Not supporting
- Partially supporting
- Not assessed
- Cities

N
W E
S

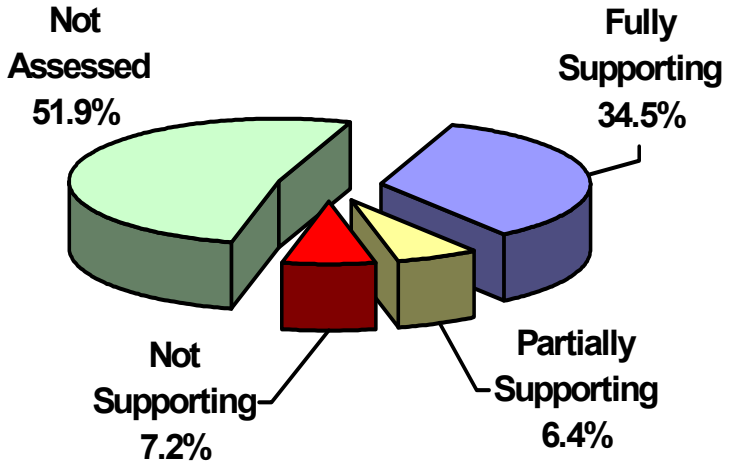
Obey River Watershed Atlas

HUC Code:	**TN05130105**	
Counties:	Clay	Cumberland
	Fentress	Overton
	Pickett	Putnam
Ecoregions:	68a	68c
	71g	71h
Drainage Size of Watershed:		779 square miles
Stream Miles in Watershed:		776.4
Stream Miles Fully Supporting:		268.0
Stream Miles Partially Supporting:		49.6
Stream Miles Not Supporting:		56.0
Stream Miles Not Assessed:		402.8
Lake Acres in Watershed:		22,000
Lake Acres Fully Supporting:		22,000 (100%)
TDEC Monitoring Stations:		30
Non-TDEC Monitoring Stations:		8
Advisories:		None
Watershed Monitoring Group:		4

Surface Water Quality in Obey River Watershed (including Dale Hollow Reservoir)

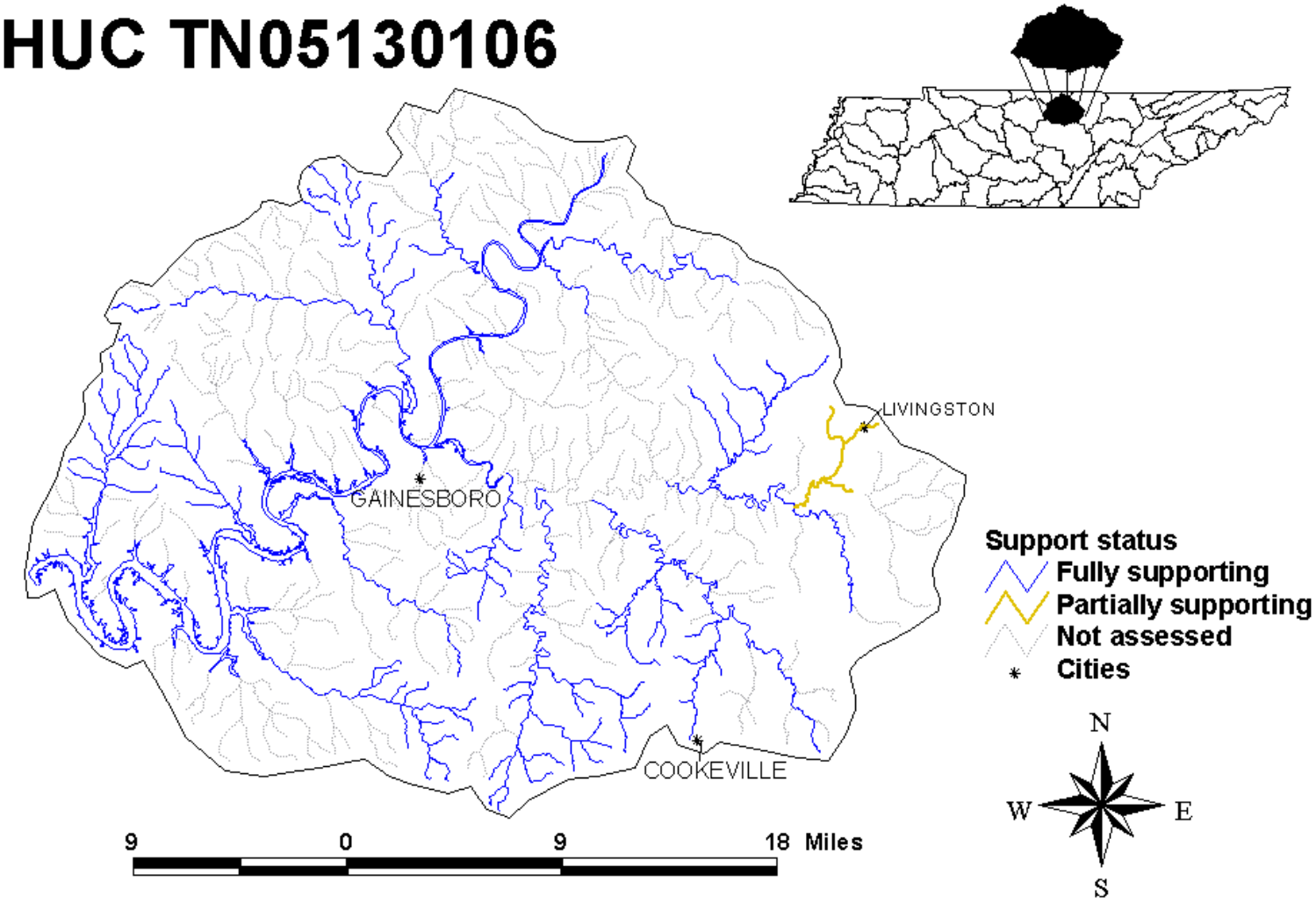
Eighty-three percent of the Obey River Watershed is in Tennessee with the remainder in Kentucky. Dale Hollow Dam (1943) is operated as a hydroelectric plant by the U.S. Army Corps of Engineers (USACE). Dale Hollow is one of the cleanest reservoirs in the state and a popular recreation area in both Kentucky and Tennessee.

Due to increased monitoring data, the percentage of assessed stream miles has increased from 14 percent to 48 percent since the 2000 report. Previous monitoring targeted problem areas in previous assessments, thus, no segments were identified as fully supporting. Additional monitoring has shown that 72 percent of assessed sites are fully supporting.



2002 Assessment of Rivers and Streams in Obey River Watershed

Cordell Hull Reservoir Watershed
HUC TN05130106



Cordell Hull Reservoir Watershed Atlas

HUC Code: **TN05130106**

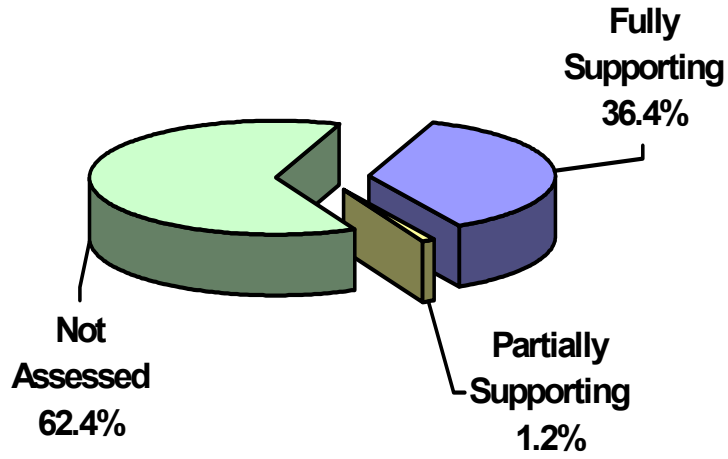
Counties:	Clay	Jackson
	Macon	Overton
	Putnum	Smith
Ecoregions:	68c	71g
	71h	
Drainage Size of Watershed:	782 square miles	
Stream Miles in Watershed:	893.8	
Stream Miles Fully Supporting:	325.3	
Stream Miles Partially Supporting:	10.7	
Stream Miles Not Supporting:	0.0	
Stream Miles Not Assessed:	557.8	
Lake Acres in Watershed:	13,901	
Lake Acres Fully Supporting:	13,901 (100%)	
TDEC Monitoring Stations:	30	
Non-TDEC Monitoring Stations:	9	
Advisories:	None	
Watershed Monitoring Group:	4	

Surface Water Quality in Cordell Hull Reservoir Watershed

This entire watershed is in Tennessee. The Cordell Hull Lock and Dam on the Cumberland River was completed in 1973 and is operated as a hydroelectric plant by USACE.

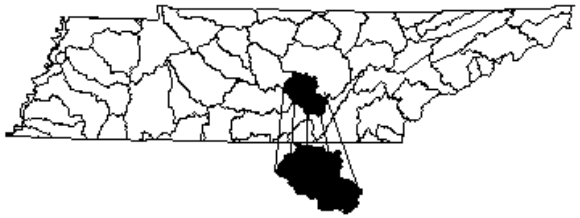
Due to increased monitoring, the percentage of assessed stream miles has risen from 9 percent in 2000 to 38 percent in 2002. The majority of stream miles (97 percent) are fully supporting.

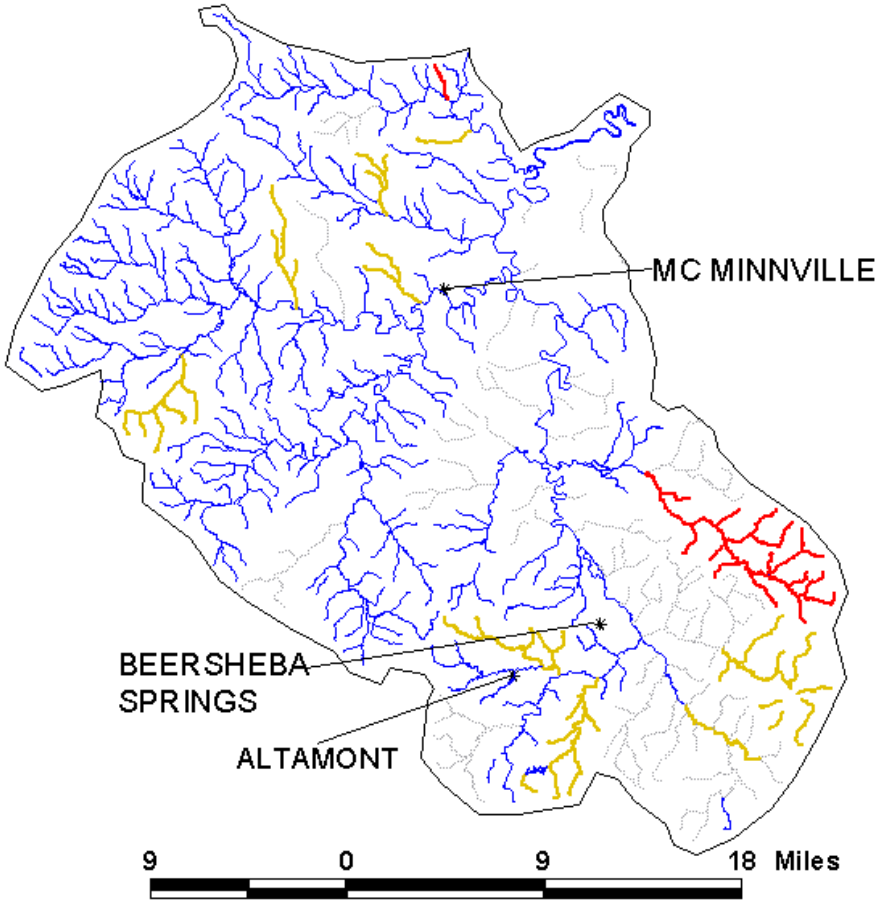
The Tennessee General Assembly has designated three Scenic Rivers in this watershed, Spring Creek, Blackburn Fork, and Roaring River. Three high quality streams are subecoregion reference sites, Flat and Spring Creeks in 71g (Eastern Highland Rim) and Flynn Creek in 71h (Outer Nashville Basin).



2002 Assessment of Rivers and Streams in Cordell Hull Reservoir Watershed

Collins River Watershed
HUC TN05130107





Support status
- Fully supporting
- Not supporting
- Partially supporting
- Not assessed
- Cities

N
W E
S

Collins River Watershed Atlas

HUC Code: **TN05130107**

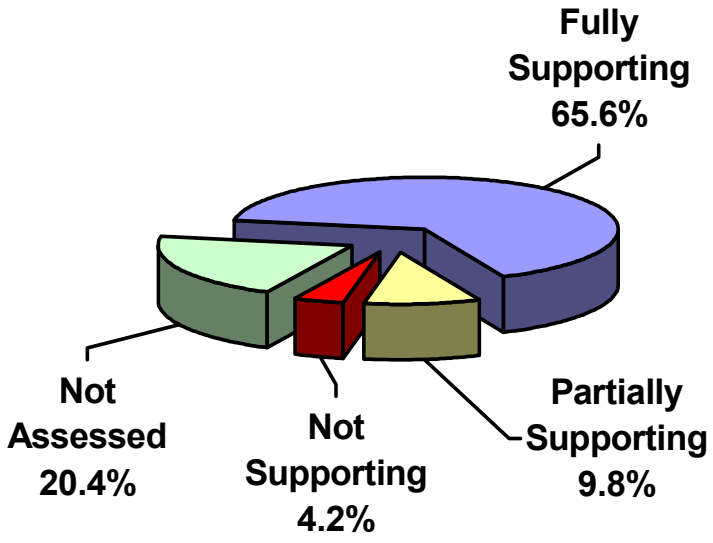
Counties:	Cannon	Coffee
	Grundy	Sequatchie
	Warren	
Ecoregions:	68a	68c
	71g	71h
Drainage Size of Watershed:	795 square miles	
Stream Miles in Watershed:	1011.5	
Stream Miles Fully Supporting:	662.9	
Stream Miles Partially Supporting:	99.4	
Stream Miles Not Supporting:	42.7	
Stream Miles Not Assessed:	206.5	
Lake Acres in Watershed:	69	
Lake Acres Fully Supporting:	69 (100%)	
TDEC Monitoring Stations:	35	
Non-TDEC Monitoring Station:	1	
Advisories:	None	
Watershed Monitoring Group:	2	

Surface Water Quality in Collins River Watershed

The entire Collins River Watershed is in Tennessee. This watershed primarily drains a rural area. Agriculture and abandoned mines are the primary water quality concerns.

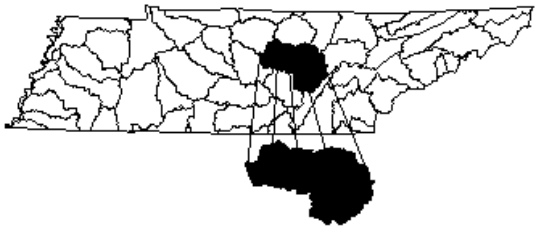
Eighty percent of the stream miles in this watershed were assessed in 2000. Due to the five-year watershed cycle, no additional monitoring data will be available until the 2004 report.

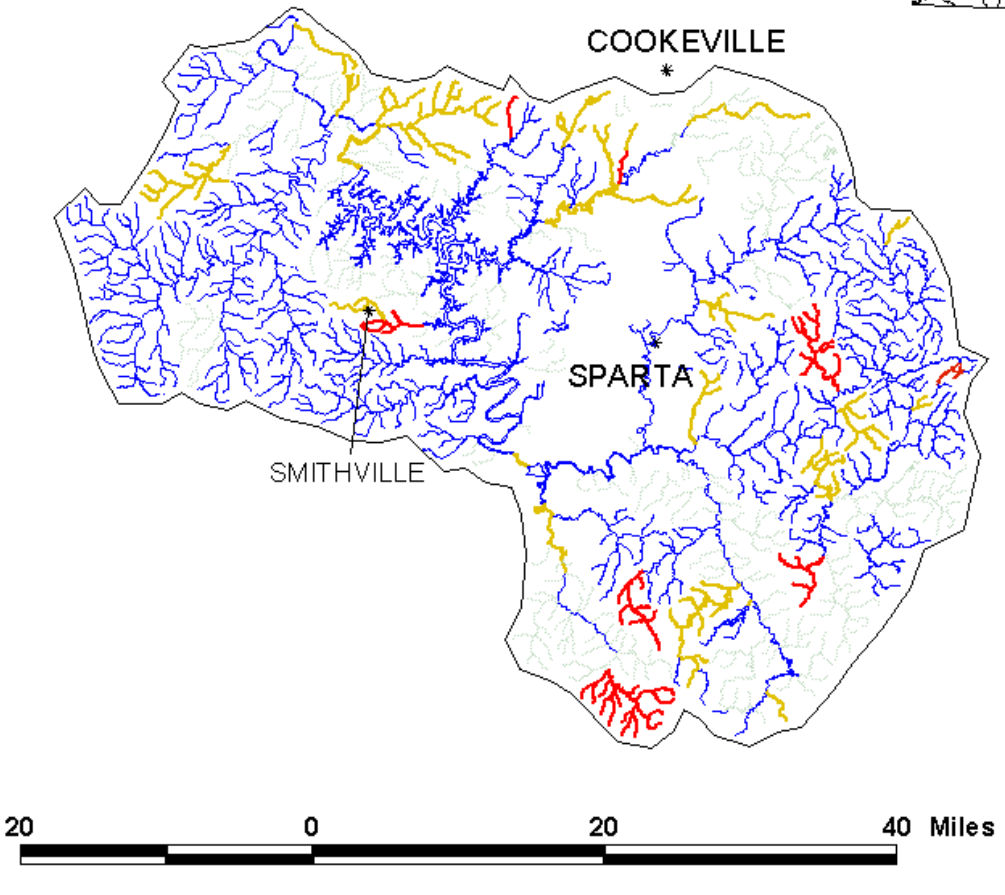
The Tennessee General Assembly has designated the portion of the Collins River that flows through the Savage Gulf State Natural Area as a State Scenic River.



2002 Assessment of Rivers and Streams in Collins River Watershed

Caney Fork River Watershed
HUC TN05130108





Caney Fork River Watershed Atlas

HUC Code: **TN05130108**

Counties:	Bledsoe	Cannon	Cumberland
	DeKalb	Putnam	Smith
	Warren	White	Wilson
	Van Buren		

Ecoregions:	68a	68c
	71g	71h

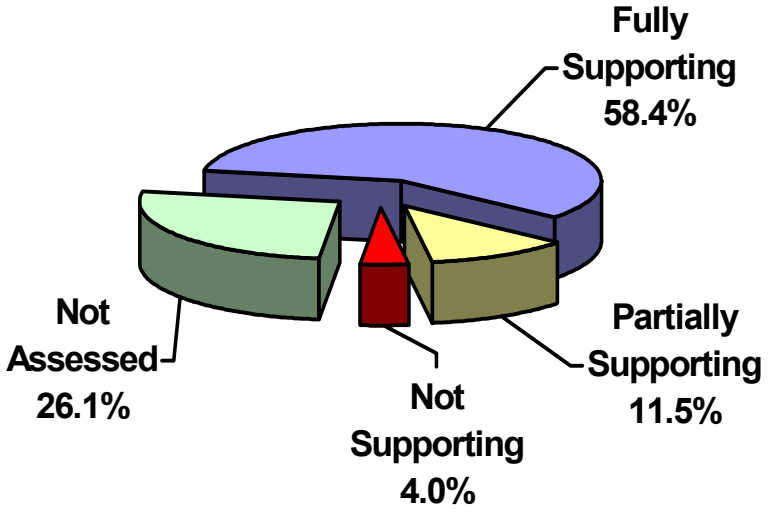
Drainage Size of Watershed:	1,780 square miles
Stream Miles in Watershed:	2,041.5
Stream Miles Fully Supporting:	1,192.8
Stream Miles Partially Supporting:	235.4
Stream Miles Not Supporting:	81.4
Stream Miles Not Assessed:	531.9
Lake Acres in Watershed:	25,887
Lake Acres Fully Supporting:	25,527 (98.6%)
Lake Acres Not Assessed:	360 (1.4%)
TDEC Monitoring Stations:	78
Non-TDEC Monitoring Stations:	11
Advisories:	1
Watershed Monitoring Group:	2

Surface Water Quality in Caney Fork River Watershed (including Center Hill Reservoir)

The entire Caney Fork Watershed is in Tennessee. Two hydroelectric plants are operated in this watershed, Center Hill Reservoir (USACE) and Great Falls Reservoir (TVA).

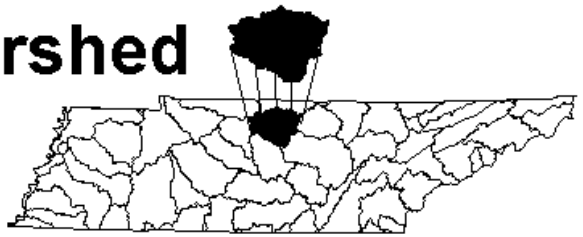
Habitat alteration and siltation due to agricultural activities as well as runoff from abandoned mines are the primary water quality concerns. Urban runoff and sewage treatment plant discharges also cause problems in some streams. Mine Lick Creek has a bacteriological advisory.

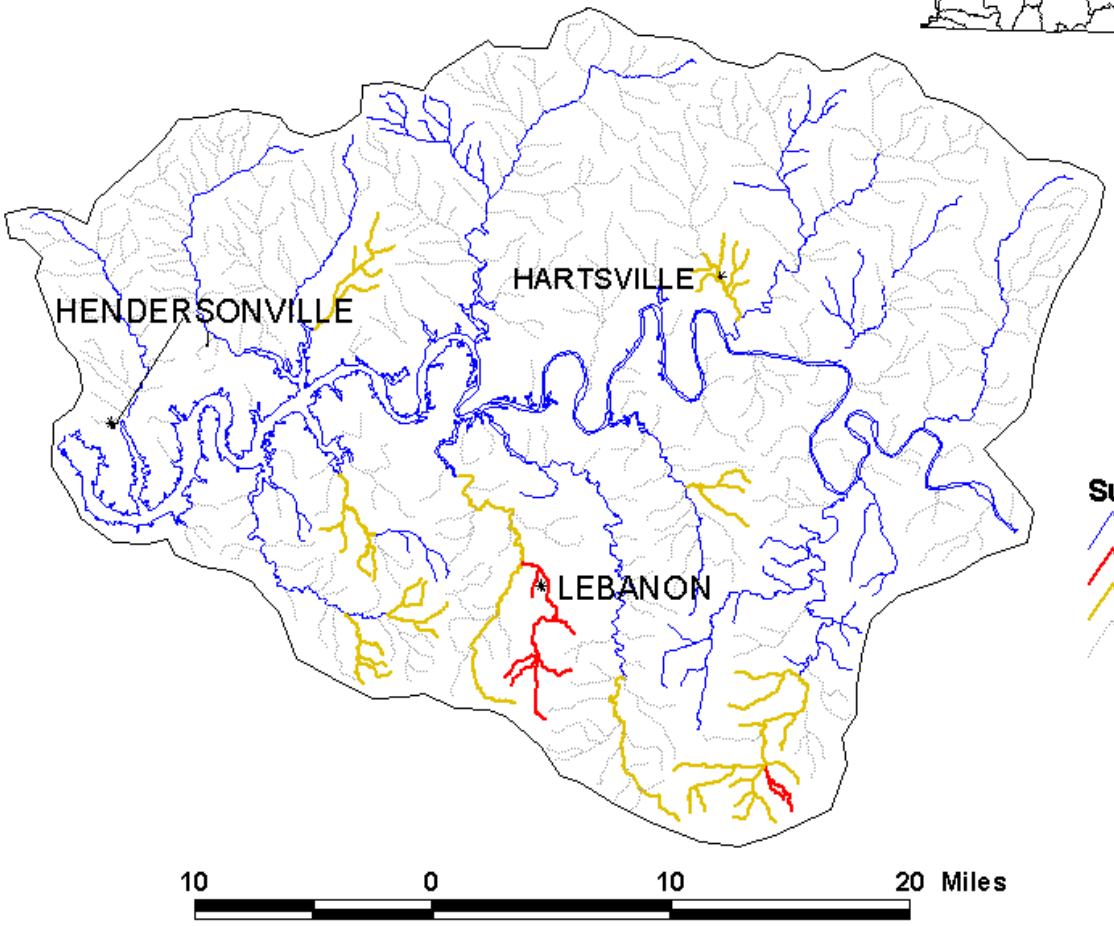
This watershed has one high quality stream that is a subecoregion reference site, Clear Fork in 71h (Outer Nashville Basin).



2002 Assessment of Rivers and Streams in Caney Fork River Watershed

Old Hickory Reservoir Watershed
HUC TN05130201





Old Hickory Reservoir Watershed Atlas

HUC Code: **TN05130201**

Counties:	Davidson	Macon
	Smith	Sumner
	Trousdale	Wilson
Ecoregions:	71h	
	71i	
	71g	

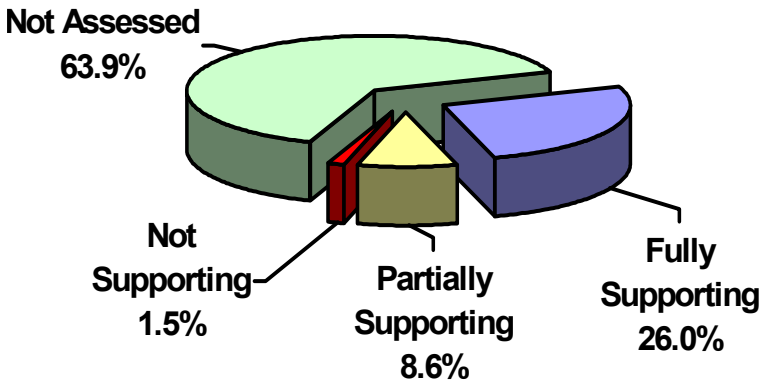
Drainage Size of Watershed:	975 square miles
Stream Miles in Watershed:	1374.3
Stream Miles Fully Supporting:	357.1
Stream Miles Partially Supporting:	118.8
Stream Miles Not Supporting:	21.1
Stream Miles Not Assessed:	877.3
Lake Acres in Watershed:	27,439
Lake Acres Fully Supporting:	27,439 (100%)
TDEC Monitoring Stations:	87
Non-TDEC Monitoring Stations:	16
Advisories:	None
Watershed Monitoring Group:	4

Surface Water Quality in Old Hickory Reservoir Watershed

This entire watershed is in Tennessee. The reservoir is an impoundment of the Cumberland River providing electricity, drinking water, and recreation for nearby metropolitan areas.

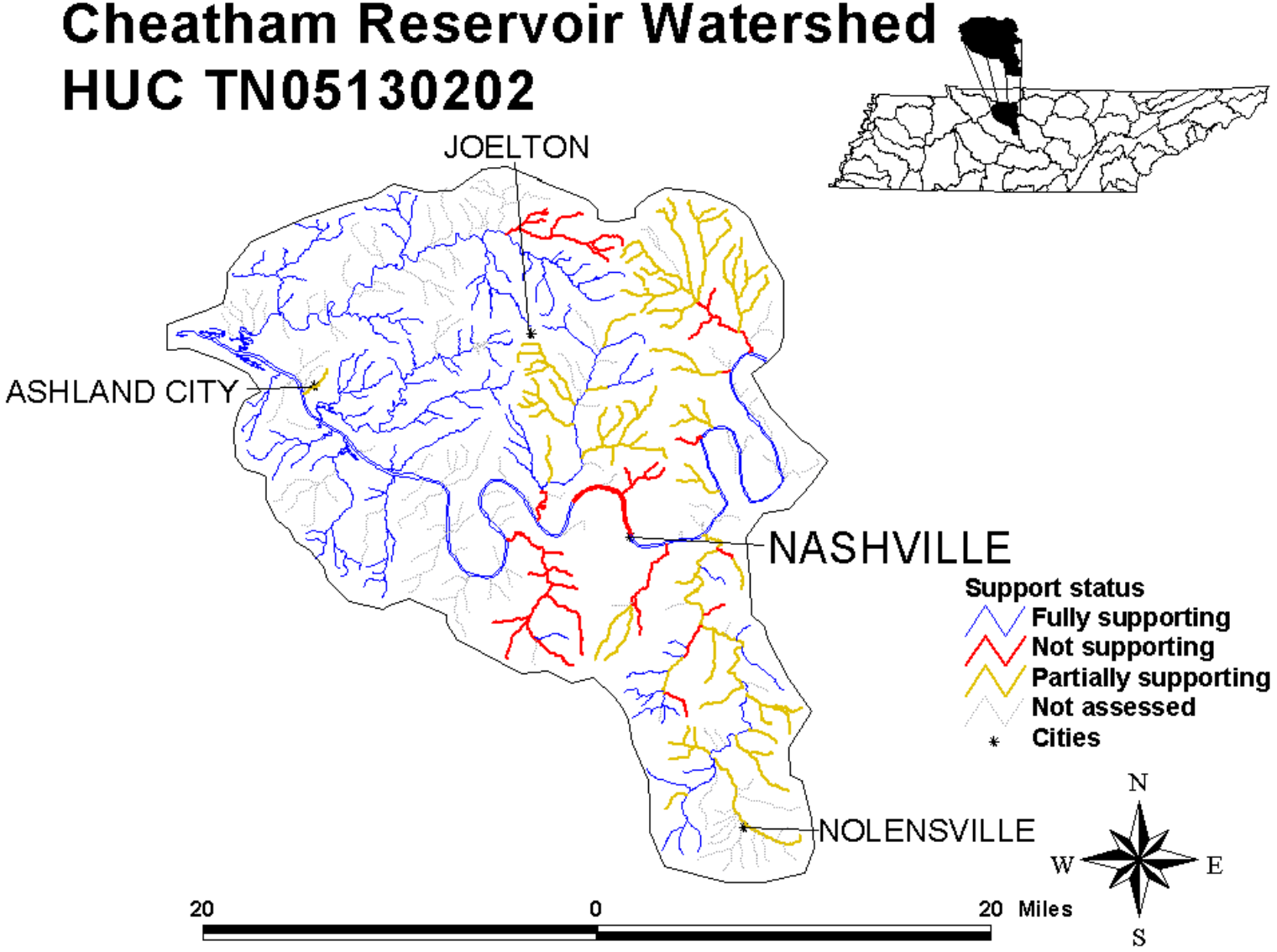
The percent of assessed stream miles has almost tripled from 13 percent in 2000 to 36 percent in this report. In the last two years, additional monitoring sites aimed at a wider range of streams has shown that 71.9 percent of assessed stream are fully supporting.

One high quality stream is a subecoregion reference site, Cedar Creek in 71i (Inner Nashville Basin).



2002 Assessment of Rivers and Streams in Old Hickory Reservoir Watershed

Cheatham Reservoir Watershed
HUC TN05130202



Cheatham Reservoir Watershed Atlas

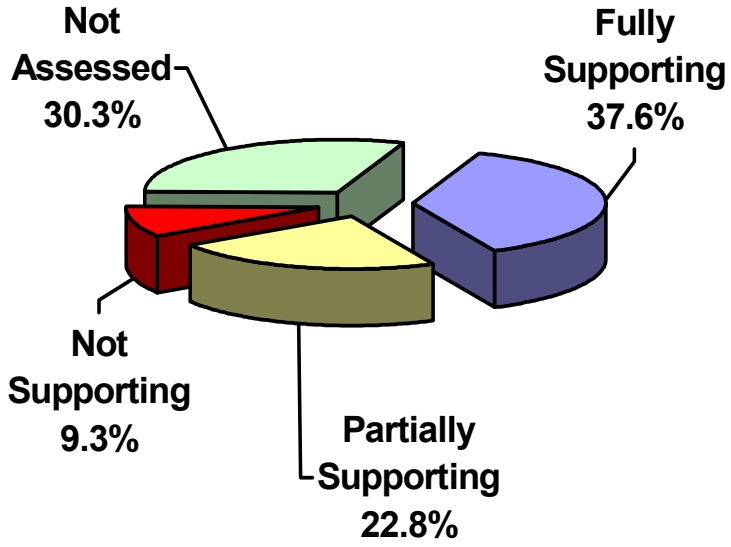
HUC Code:	TN05130202	
Counties:	Cheatham	Davidson
	Roberson	Sumner
	Williamson	
Ecoregions:	71e	71f
	71h	71i
Drainage Size of Watershed:	642 square miles	
Stream Miles in Watershed:	773.3	
Stream Miles Fully Supporting:	290.4	
Stream Miles Partially Supporting:	176.5	
Stream Miles Not Supporting:	72.1	
Stream Miles Not Assessed:	234.3	
Lake Acres in Watershed:	7,507	
Lake Acres Fully Supporting:	6,453 (86%)	
Lake Acres Not Supporting:	994 (13.2%)	
Lake Acres Not Assessed:	60 (0.8%)	
TDEC Monitoring Stations:	151	
Non-TDEC Monitoring Stations:	5	
Advisories:	10	
Watershed Monitoring Group:	5	

Surface Water Quality in Cheatham Reservoir Watershed

The entire Cheatham Reservoir Watershed is within Tennessee and provides electricity, drinking water, recreation, and commercial transportation for the Nashville area.

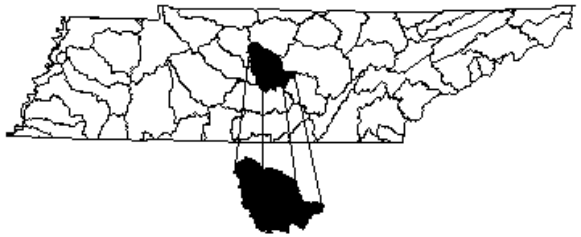
The most frequently cited pollution sources in this watershed are collection system failures, urban runoff, and land development resulting in elevated pathogens, siltation and habitat alteration.

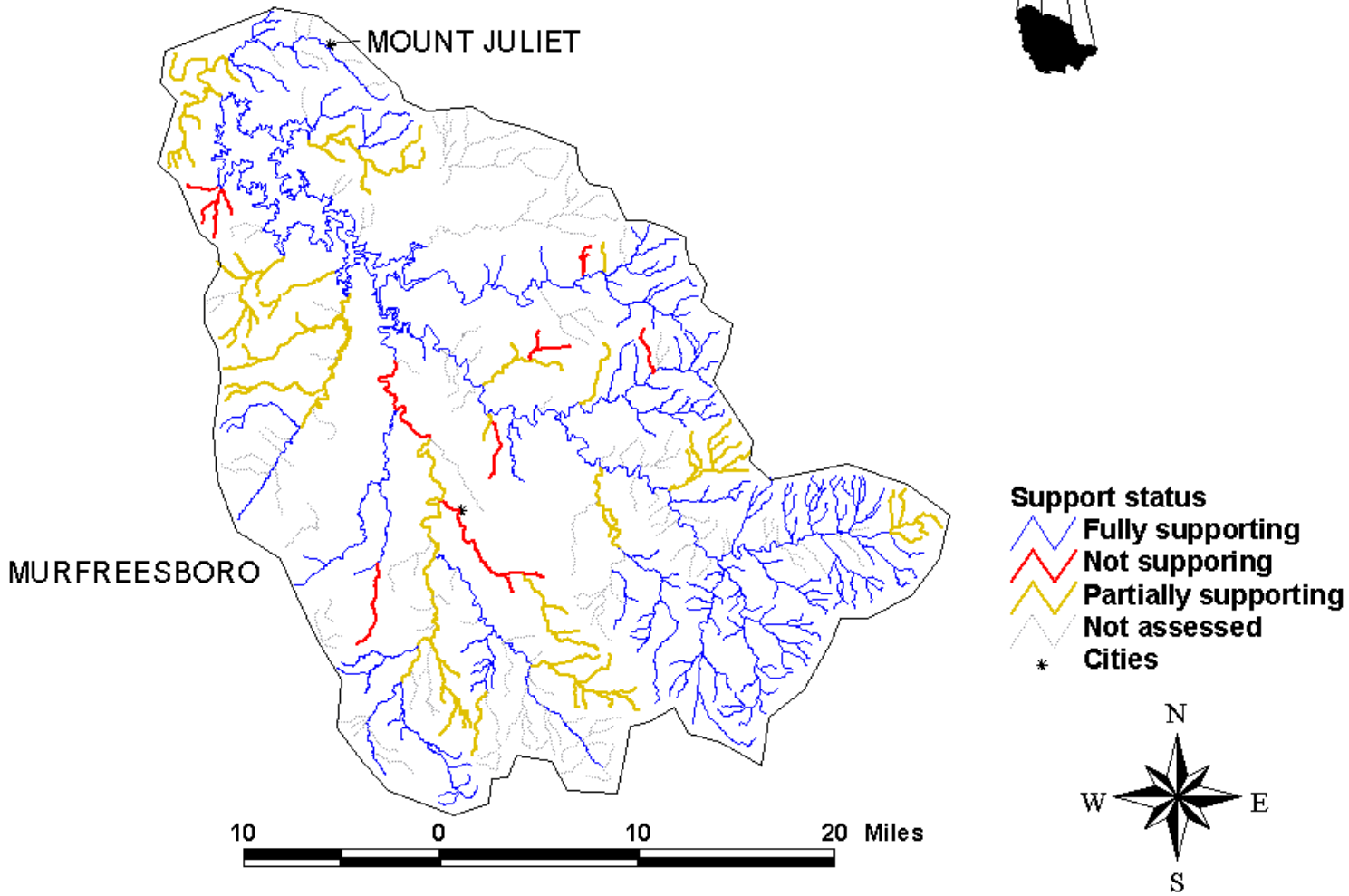
Metro Nashville has been working to correct its combined sewer overflow problem (Chapter X). Primarily due to these efforts, the percentage of fully supporting lake acres has increased from 30 percent in 2000 to 86 percent.



2002 Assessment of Rivers and Streams in Cheatham Reservoir Watershed

Stones River Watershed
HUC TN05130203





Stones River Watershed Atlas

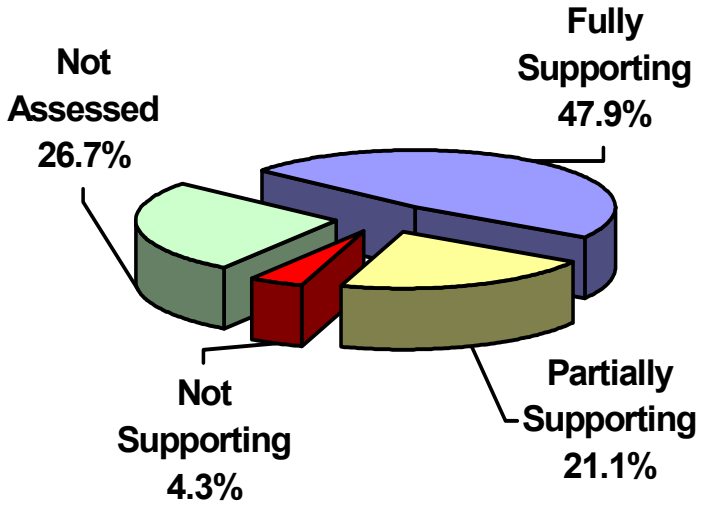
HUC Code:	**TN05130203**	
Counties:	Cannon Rutherford	Davidson Wilson
Ecoregions:	71h 71i	
Drainage Size of Watershed:	921 square miles	
Stream Miles in Watershed:	1,025.8	
Stream Miles Fully Supporting:	491.6	
Stream Miles Partially Supporting:	216.0	
Stream Miles Not Supporting:	43.8	
Stream Miles Not Assessed:	274.4	
Lake Acres in Watershed:	22,691	
Lake Acres Fully Supporting:	22,691 (100%)	
TDEC Monitoring Stations:	71	
Non-TDEC Monitoring Stations:	5	
Advisories:	None	
Watershed Monitoring Group:	1	

Surface Water Quality in Stones River Watershed (including Percy Priest Reservoir)

The entire watershed is in Tennessee. Percy Priest is formed by an impoundment of the Stones River by a USACE hydroelectric dam.

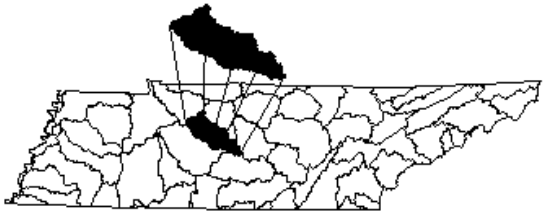
Livestock, urban runoff and land development are the primary sources of pollution in the watershed. The majority of stream miles (73 percent) have been assessed with 65 percent of those fully supporting. Percy Priest Reservoir is fully supporting.

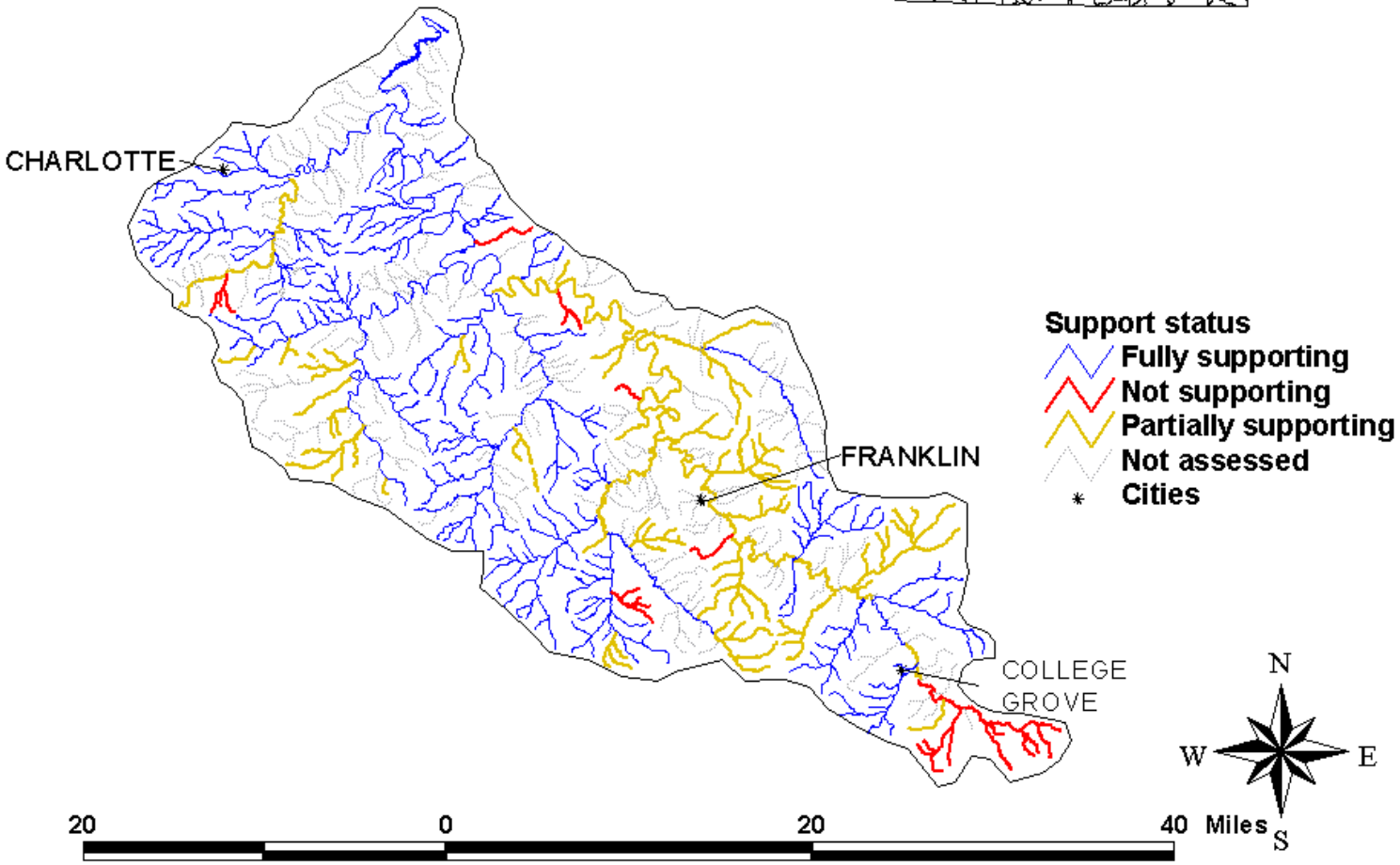
Four high quality streams are subecoregion reference sites, Fall Creek, Stewart Creek, and West Fork Stone River in 71i (Inner Nashville Basin) and Carson Fork in 71h (Outer Nashville Basin).



2002 Assessment of Rivers and Streams in Stones River Watershed

Harpeth River Watershed
HUC TN05130204





Harpeth River Watershed Atlas

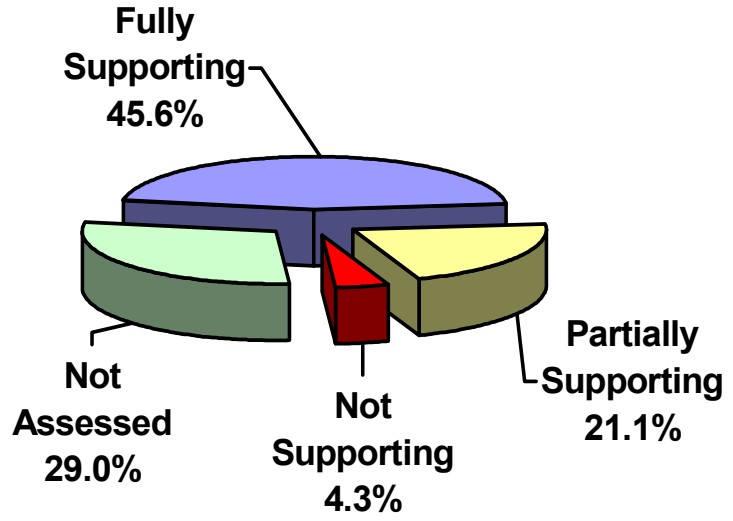
HUC Code:	**TN05130204**	
Counties:	Cheatham Dickson Rutherford	Davidson Hickman Williamson
Ecoregions:	71f 71i	71h
Drainage Size of Watershed:		861 square miles
Stream Miles in Watershed:		1,317.2
Stream Miles Fully Supporting:		601.0
Stream Miles Partially Supporting:		278.3
Stream Miles Not Supporting:		56.3
Stream Miles Not Assessed:		381.6
Lake Acres in Watershed:		655
Lake Acres Not Assessed:		655 (100%)
TDEC Monitoring Stations:		71
Non-TDEC Monitoring Stations:		23
Advisories:		None
Watershed Monitoring Group:		1

Surface Water Quality in Harpeth River Watershed

The entire Harpeth River Watershed is in Tennessee.

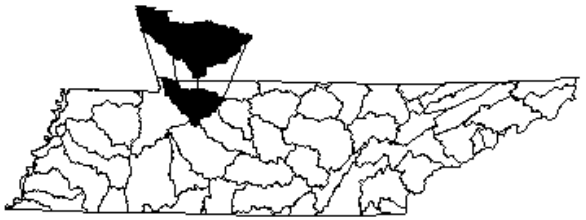
Seventy-one percent of the streams have been assessed with more than half fully supporting. Siltation and habitat alteration are the leading pollutants. These problems were corrected in Arkansas Creek due to the operational improvements at the Williamson County Landfill (Chapter X).

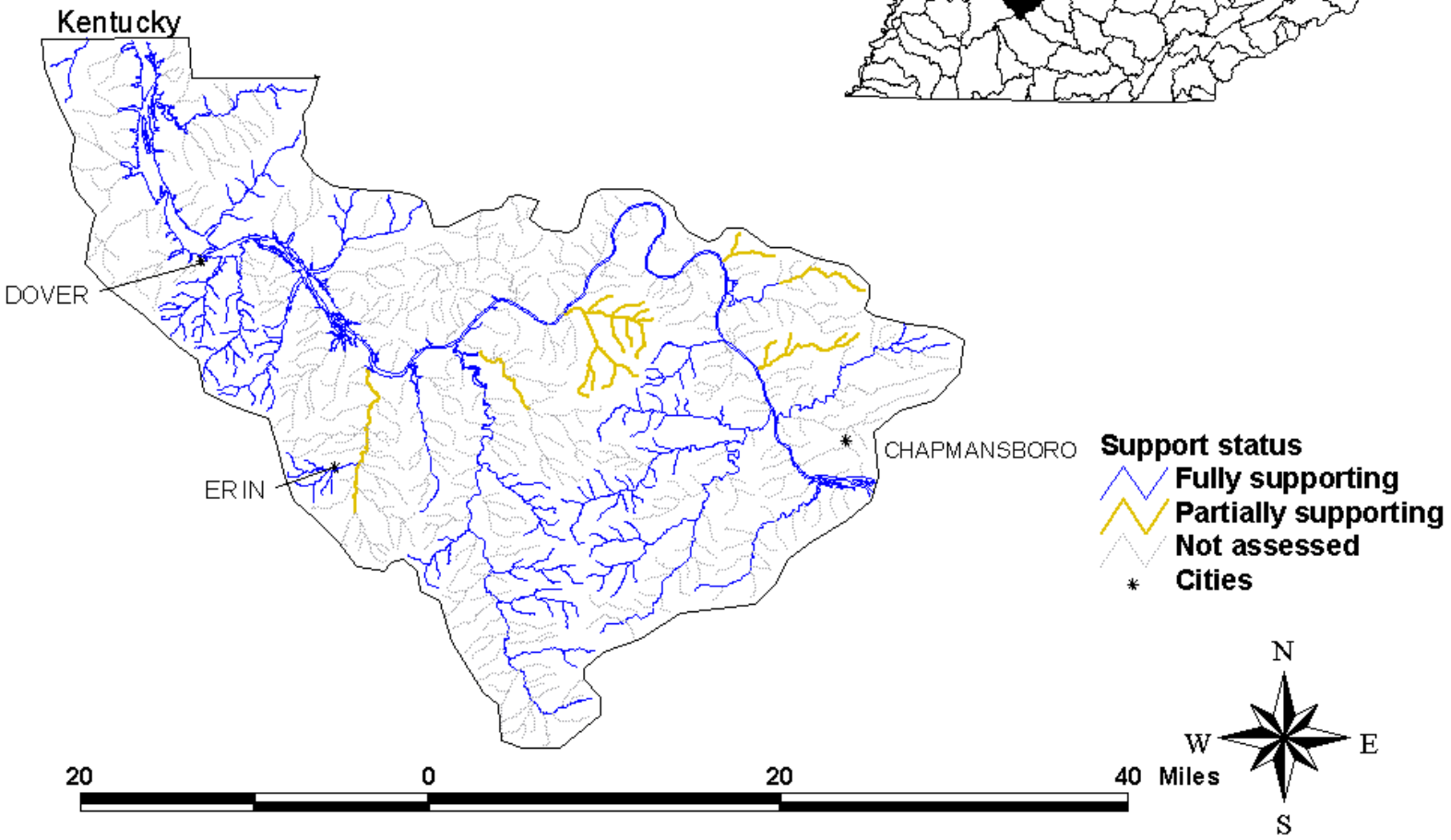
The Tennessee General Assembly has designated portions of Harpeth River as a State Scenic River. This watershed also has two high quality streams that are subecoregion reference sites; the South Harpeth River in 71f (Western Highland Rim) and the Harpeth River in 71i (Inner Nashville Basin).



2002 Assessment of Rivers and Streams in Harpeth River Watershed

Barkley Reservoir Watershed
HUC TN05130205





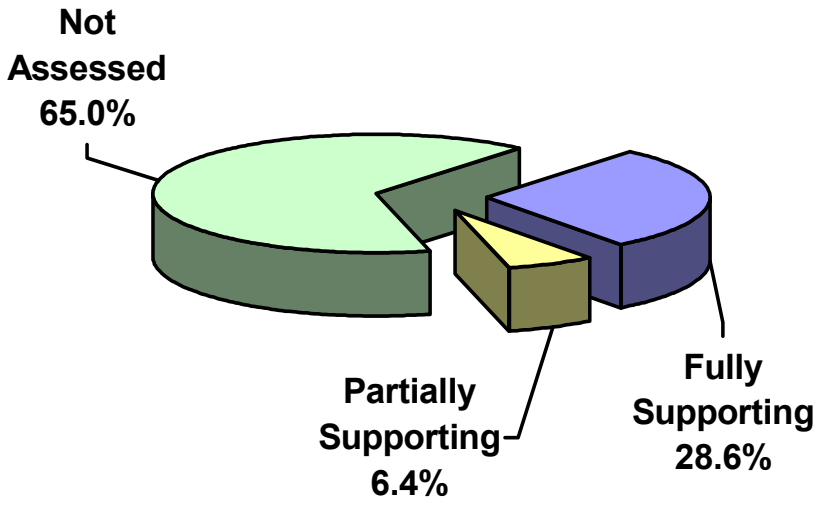
Barkley Reservoir Watershed Atlas

HUC Code:	**TN05130205**	
Counties:	Cheatham Houston Stewart	Dickson Montgomery
Ecoregions:	71e 71f	
Drainage Size of Watershed:	986 square miles	
Stream Miles in Watershed:	1,047.9	
Stream Miles Fully Supporting:	299.4	
Stream Miles Partially Supporting:	67.3	
Stream Miles Not Supporting:	0.0	
Stream Miles Not Assessed:	681.2	
Lake Acres in Watershed:	37,000	
Lake Acres Fully Supporting:	37,000 (100%)	
TDEC Monitoring Stations:	49	
Non-TDEC Monitoring Stations:	1	
Advisories:	None	
Watershed Monitoring Group:	5	

Surface Water Quality in Barkley Reservoir Watershed

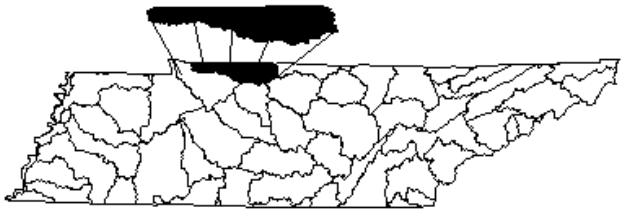
Forty-three percent of Barkley Reservoir is in Tennessee with the remainder in Kentucky. Barkley Dam, on the Cumberland River, is operated by the USACE as a hydroelectric plant. Barkley Reservoir forms the eastern boundary of Land Between the Lakes National Recreation Area, a popular recreation area.

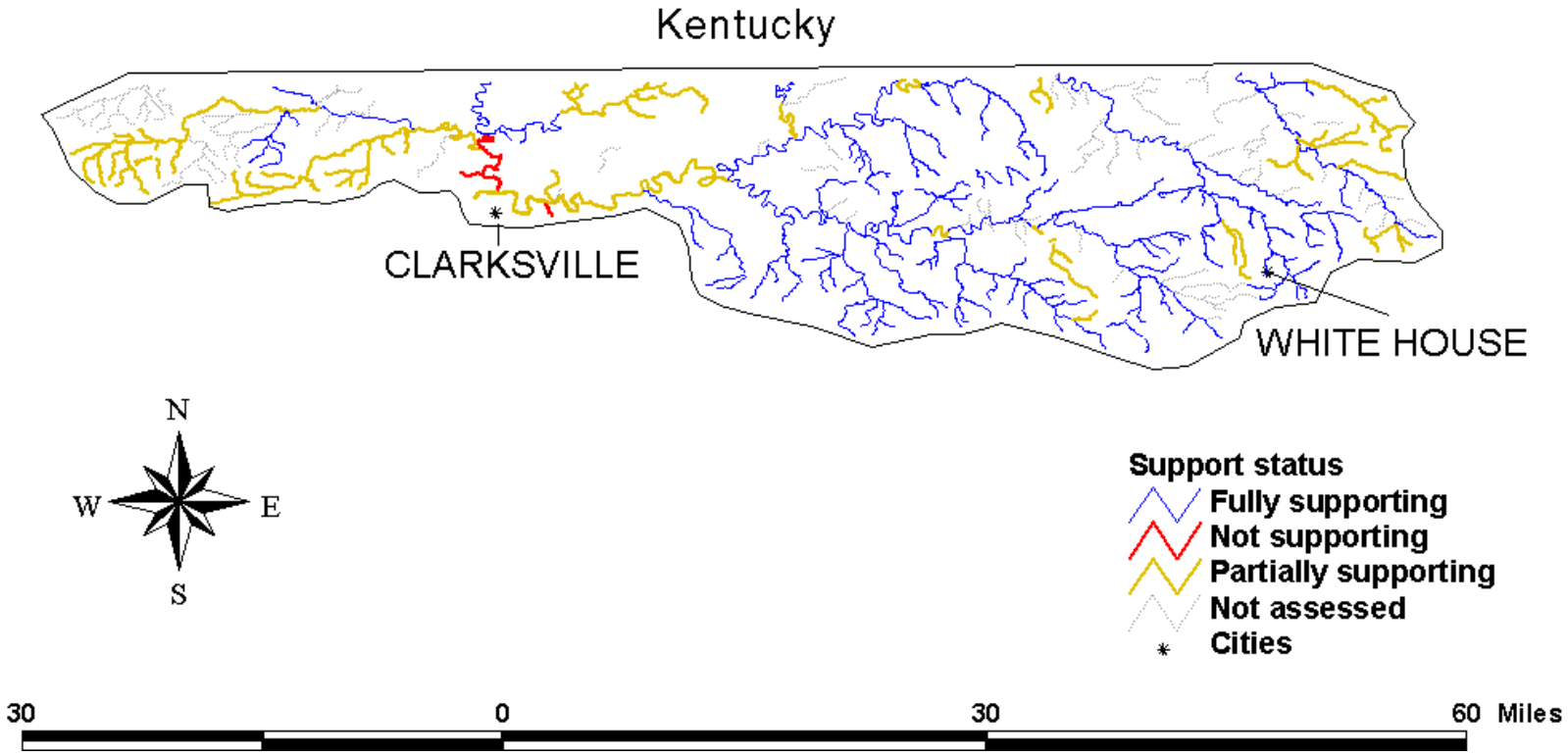
Only five percent of the streams had been assessed in 2000. Monitoring efforts over the last two years have increased this to 35 percent of the watershed. The percent of assessed miles that were fully supporting remained high and consistent (80 percent to 82 percent) in both 2000 and 2002.



2002 Assessment of Rivers and Streams in Barkley Reservoir Watershed

Red River Watershed
HUC TN05130206





Red River Watershed Atlas

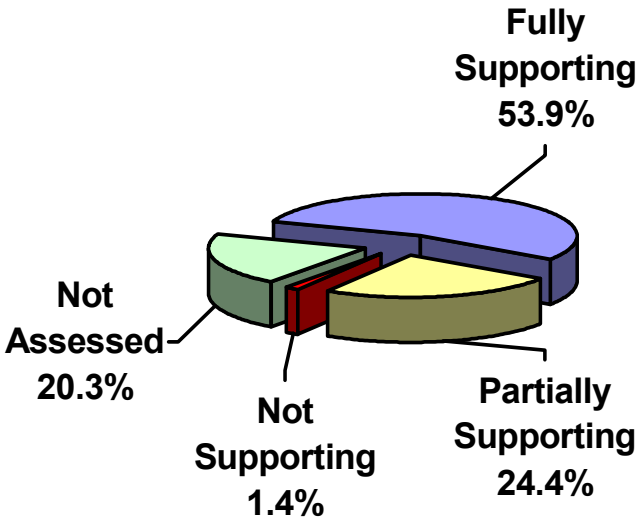
HUC Code:	**TN05130206**	
Counties:	Montgomery Stewart	Robertson Sumner
Ecoregions:	71e 71f 71g	
Drainage Size of Watershed:	767 square miles	
Stream Miles in Watershed:	788.7	
Stream Miles Fully Supporting:	424.3	
Stream Miles Partially Supporting:	192.8	
Stream Miles Not Supporting:	11.3	
Stream Miles Not Assessed:	160.3	
Lake Acres in Watershed:	15	
Lake Acres Partially Supporting:	15 (100%)	
TDEC Monitoring Stations:	120	
Non-TDEC Monitoring Stations:	7	
Advisories:	None	
Watershed Monitoring Group:	4	

Surface Water Quality in Red River Watershed

The Red River flows from Kentucky to the Barkley embayment of the Cumberland River near Clarksville, TN. Fifty-three percent of the Red River Watershed is in Tennessee with the remainder in Kentucky.

Eighty percent of the stream miles have been assessed with 68 percent fully supporting. Siltation, habitat alteration, pathogens, and nutrients are the leading causes of pollution.

This watershed has two high quality streams that are subecoregion reference sites, Buzzard and Passenger Creeks in 71e (Western Pennyroyal Karst).



2002 Assessment of Rivers and Streams in Red River Watershed